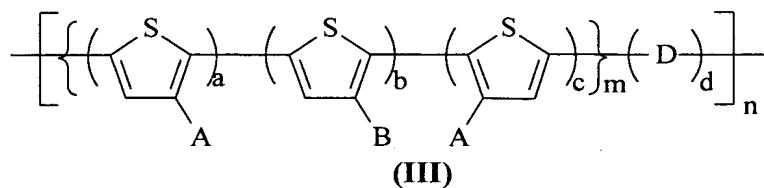


CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

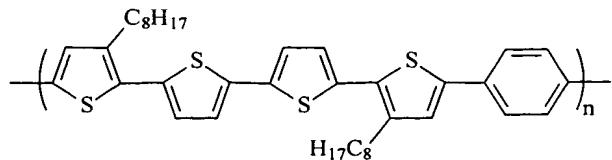
1. **(Previously Presented)** A symmetrical polythiophene



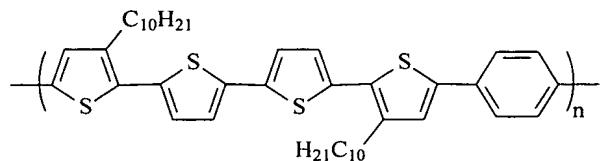
wherein A is a side chain; B is hydrogen or a side chain; D is a divalent linkage; a and c represent the number of A-substituted thiénylenes; b is the number of B-substituted thiénylene segments; d is 0 or 1; and n represents the degree of polymerization, and wherein A is alkyl, and said B side chain is alkyl.

2. **(Cancelled)**

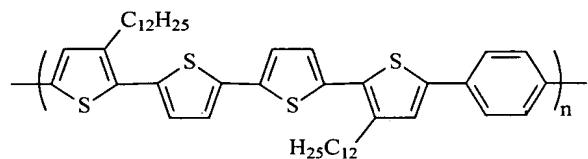
3. (Original) A polythiophene represented by



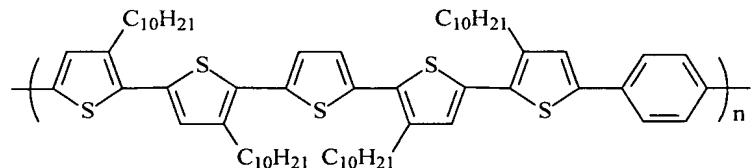
(1)



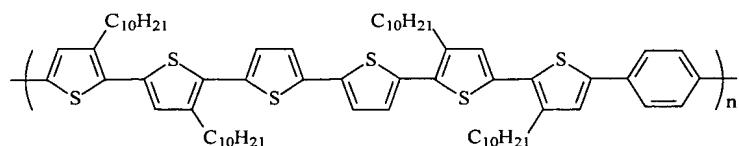
(2)



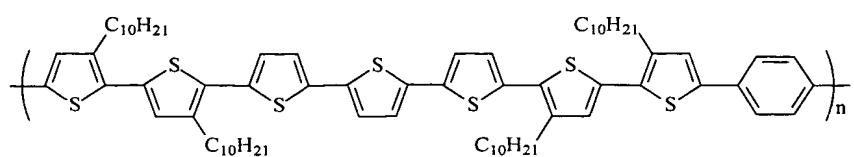
(3)



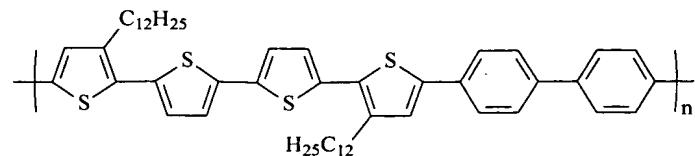
(4)



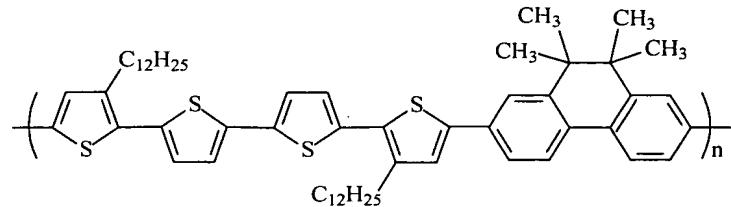
(5)



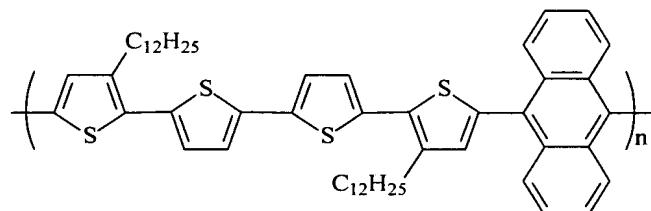
(6)



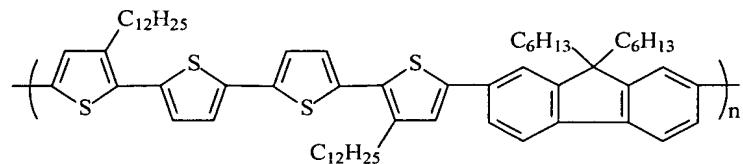
(7)



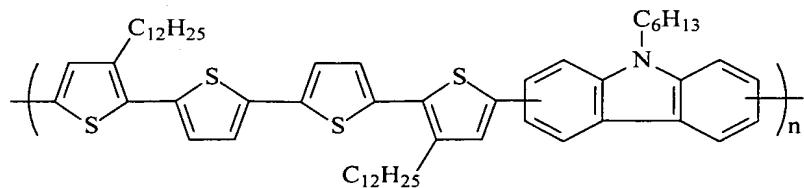
(8)



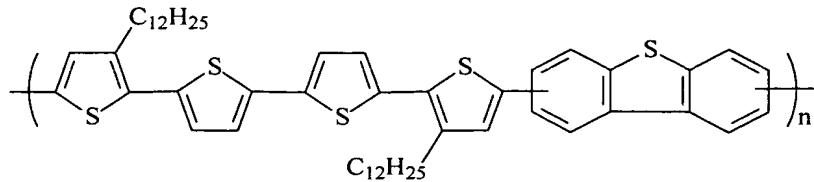
(9)



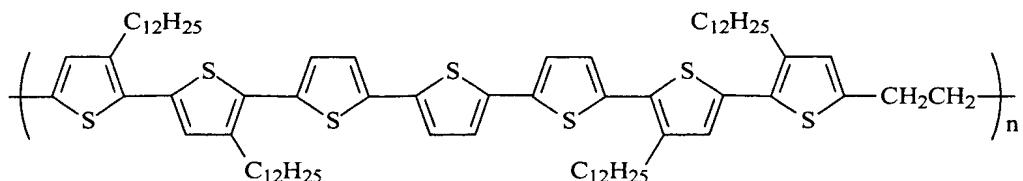
(10)



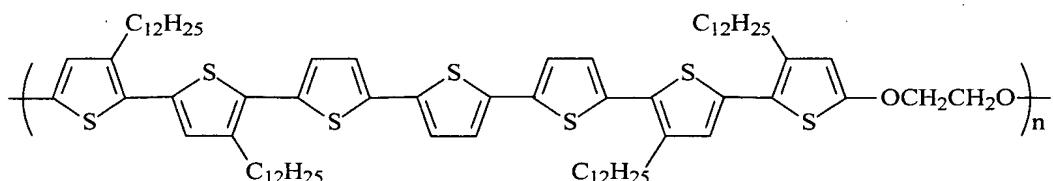
(11)



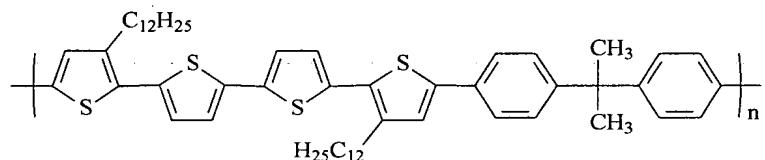
(12)



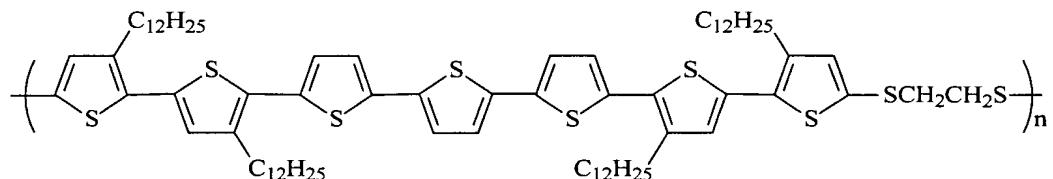
(13)



(14)

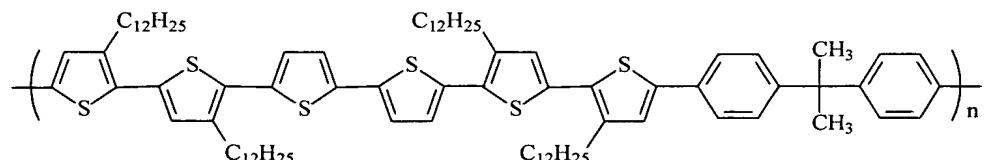


(15)



(16)

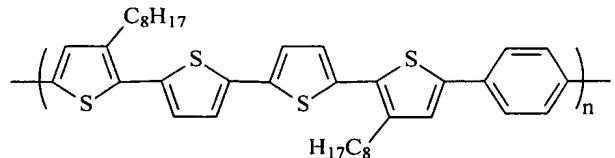
or



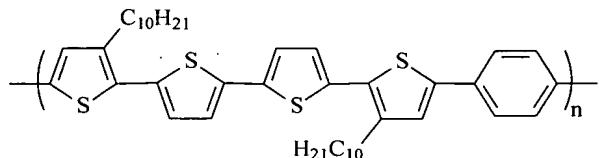
(17)

and wherein n represents the number of segments.

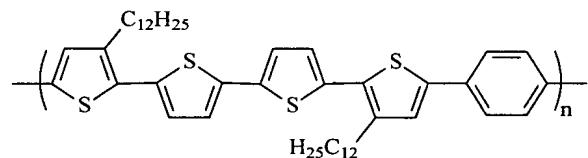
4. (Original) A polythiophene in accordance with **claim 1** wherein said polythiophene is represented by the following formulas



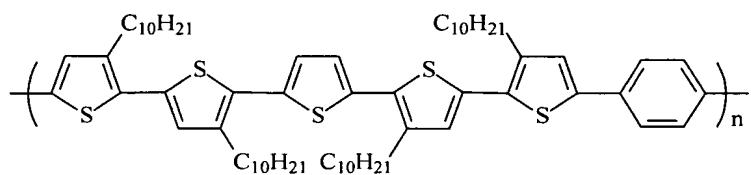
(1)



(2)



(3)



(4)

5. (Cancelled)

6. (Original) A polythiophene in accordance with **claim 1** wherein A is alkyl containing from about 1 to about 25 carbon atoms, and B is alkyl containing from 0 to about 4 carbon atoms.

7. (Original) A polythiophene in accordance with **claim 6** wherein A contains from about 5 to about 25 carbon atoms, and B contains from 0 to about 4 carbon atoms.

8. **(Original)** A polythiophene in accordance with **claim 1** wherein a is from about 1 to about 7.

9. **(Original)** A polythiophene in accordance with **claim 1** wherein b is from about 1 to about 7.

10. **(Original)** A polythiophene in accordance with **claim 1** wherein d is zero.

11. **(Original)** A polythiophene in accordance with **claim 1** wherein d is 1.

12. **(Original)** A polythiophene in accordance with **claim 1** wherein n is from about 5 to about 5,000.

13. **(Original)** A polythiophene in accordance with **claim 1** wherein n is from about 5 to about 3,000.

14. **(Original)** A polythiophene in accordance with **claim 1** wherein n is from about 10 to about 1,000.

15. **(Original)** A polythiophene in accordance with **claim 1** wherein A is alkyl containing from about 6 to about 25 carbon atoms; B is hydrogen or alkyl containing from 1 to about 3 carbon atoms; D is arylene or dioxyarene, each containing from about 6 to about 40 carbon atoms, or alkylene or dioxyalkane, each containing from about 1 to about 20 carbon atoms.

16. **(Original)** A polythiophene in accordance with **claim 1** wherein A is alkyl containing from about 8 to about 12 carbon atoms, and B is a hydrogen atom.

17. **(Original)** A polythiophene in accordance with **claim 1** wherein A is alkyl containing from 5 to about 15 carbon atoms; B is a hydrogen atom; D is arylene; a, b, c, and m are independently selected from the numbers 1, 2, and 3; and d = 1.

18. **(Original)** A polythiophene in accordance with **claim 1** wherein A is alkyl containing from about 8 to about 12 carbon atoms; B is a hydrogen atom; D is arylene; a = c = m = 1; b = 2; and d = 1.

19. **(Original)** A polythiophene in accordance with **claim 1** wherein n is from about 5 to about 5,000.

20. **(Original)** A polythiophene in accordance with **claim 1** wherein the number average molecular weight (M_n) of (III) is from about 10,000 to about 30,000, and the weight average molecular weight (M_w) is from about 15,000 to about 100,000.

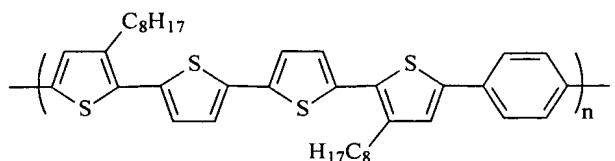
21. **(Original)** A polythiophene in accordance with **claim 1** wherein the number average molecular weight (M_n) of (III) is from about 2,000 to about 100,000, and wherein the weight average molecular weight (M_w) is from about 4,000 to about 500,000, each as measured by gel permeation chromatography using polystyrene standards.

22. **(Original)** A polythiophene in accordance with **claim 1** wherein A is hexyl heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, or pentyldecyl.

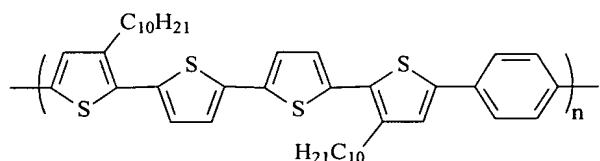
23. **(Original)** A polythiophene in accordance with **claim 1** wherein D is an arylene selected from the group consisting of phenylene, tolylene, xylylene, biphenylene, substituted biphenylene, fluorenylene, phenanthrenylene, dihydrophenanthrenylene, dibenzofuranediyl, dibenzothiophenediyl, and carbazole-diyl.

24. (Original) A polythiophene in accordance with **claim 1** wherein D is saturated linkage selected from the group consisting of alkylene, dioxyalkane, dioxyarene, and oligoethylene oxide.

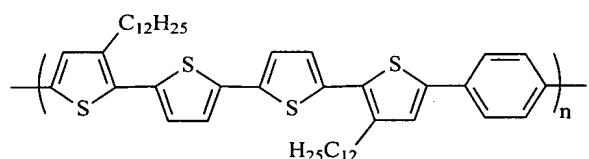
25. (Original) A polythiophene in accordance with **claim 1** wherein said polythiophene is represented by or encompassed by the following formulas, and wherein n represents the number of repeating segments, and is a number of from about 5 to about 4,000



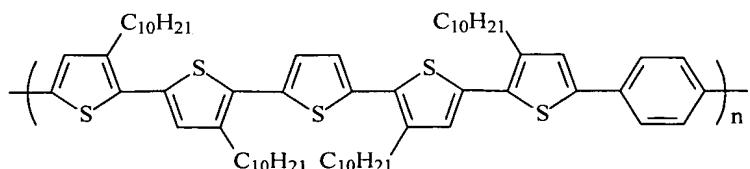
(1)



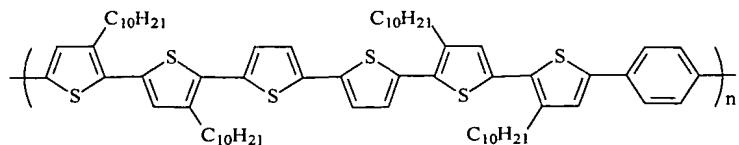
(2)



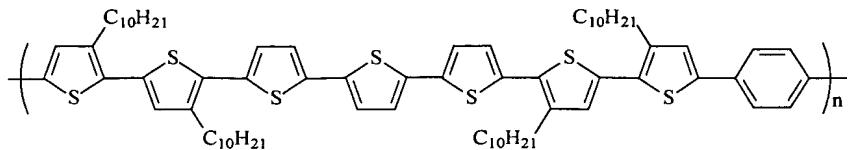
(3)



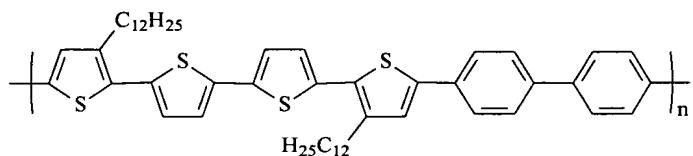
(4)



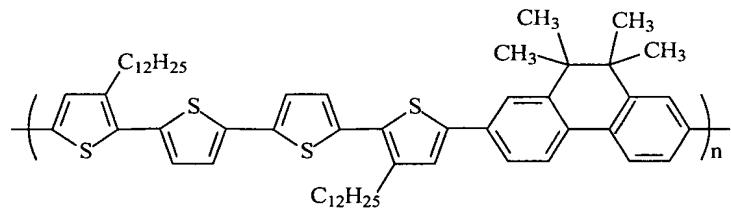
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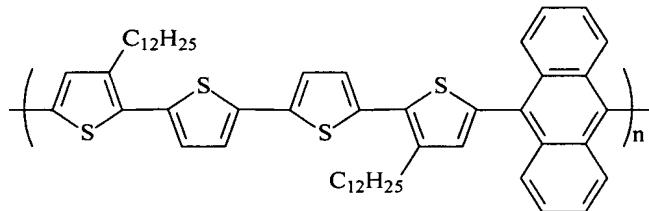
(6)



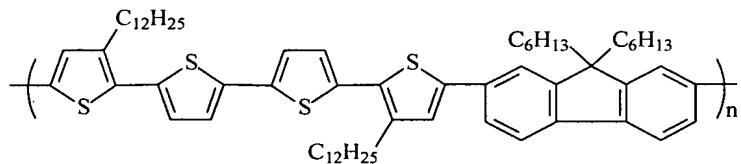
(7)



(8)

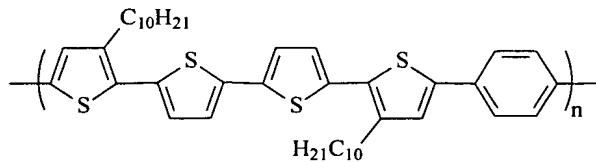


(9)

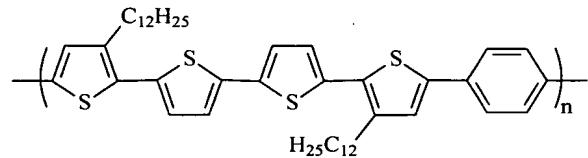


(10)

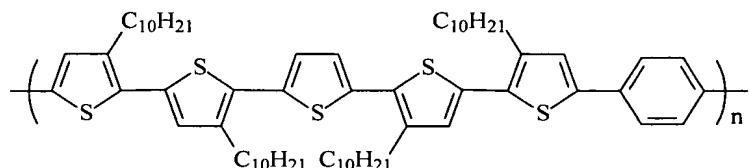
26. (**Original**) A polythiophene in accordance with **claim 1** wherein said polythiophene is



(2)



(3)



(4)

27. (**Cancelled**)

28. (**Cancelled**)

29. (**New**) A polythiophene in accordance with **claim 1** wherein A contains from 5 to about 25 carbon atoms; B contains from 1 to about 4 carbon atoms; said D is optionally comprised of a saturated moiety of alkylene, -O-R-O-, -S-R-S-, -NH-R-NH-, wherein R is alkylene or arylene, or an unsaturated moiety of arylene or heteroaromatics; a is from about 1 to about 8; b is from 1 to about 6; and c is from 1 to about 8.